

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
		((wave or belleville or flat) with (spring or washer) and ((valve or cover) and engine)	US-PGPUB; USPAT	OR	OFF	2006/06/12 17:07
S1	8	((("4027644") or ("4548170") or ("4571133") or ("4752178") or ("5020949") or ("5397206") or ("5655489") or ("6280132"))).PN.	US-PGPUB; USPAT	OR	OFF	2005/02/04 15:20
S2	375	(411/353).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/02/04 16:20
S3	2	S1 and valve and cover and engine and head	US-PGPUB; USPAT	OR	OFF	2005/02/04 16:07
S4	13	("1982464"   "2813568"   "2951674"   "3272542"   "3434746"   "3953555"   "4732519"   "5094579").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/04 15:59
S5	18	("5397206").URPN.	USPAT	OR	OFF	2005/02/04 16:00
S6	7	("4027644"   "4456268"   "4571133"   "4593659"   "5323740"   "5365901"   "5375569").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/04 16:01
S7	3	("5655489").URPN.	USPAT	OR	OFF	2005/02/04 16:04
S8	2	S1 and valve and cover	US-PGPUB; USPAT	OR	OFF	2005/02/04 16:07
S9	5	S1 and engine	US-PGPUB; USPAT	OR	OFF	2005/02/04 16:10
S10	5117	wave and spring and valve and cover	US-PGPUB; USPAT	OR	OFF	2005/02/04 16:10
S11	0	wave and spring and valve and cover and "411"/\$.ccls.	US-PGPUB; USPAT	OR	OFF	2005/02/04 16:11
S12	581	wave with spring and valve and cover	US-PGPUB; USPAT	OR	OFF	2005/02/04 16:11
S13	162	wave with spring and valve with cover	US-PGPUB; USPAT	OR	OFF	2005/02/04 16:11
S14	1032	wave with spring and vibration	US-PGPUB; USPAT	OR	OFF	2005/02/04 16:31
S15	260	wave with spring and vibration and engine	US-PGPUB; USPAT	OR	OFF	2005/02/04 16:31
S18	1	("5655489").PN.	US-PGPUB; USPAT	OR	OFF	2005/02/07 14:59
S19	7	("4027644"   "4456268"   "4571133"   "4593659"   "5323740"   "5365901"   "5375569").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/07 14:14
S20	3	("5655489").URPN.	USPAT	OR	OFF	2005/02/07 14:17

## EAST Search History

S21	12	("1980335"   "2790660"   "3519279"   "3541917"   "3787060"   "4118041"   "4201309"   "4232496").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/07 14:19
S22	3	("4456268").URPN.	USPAT	OR	OFF	2005/02/07 14:40
S25	298	belleville and cover with valve	US-PGPUB; USPAT	OR	OFF	2005/02/07 15:01
S26	10	("2724378"   "3396712"   "3656466"   "3773142"   "3822763"   "3869859"   "3924597").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/07 15:39
S27	19	("4027644").URPN.	USPAT	OR	OFF	2005/02/07 15:40
S28	19	("0183324"   "0292063"   "0360091"   "1394740"   "2943528"   "3280689"   "3285120"   "3474701"   "3631910"   "3884457"   "4072081").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/07 16:25
S29	297	((411/543) or (411/544) or (411/545)).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/02/07 16:27
S30	44	("0361298"   "0491173"   "1139732"   "1181173"   "1849604"   "2255217"   "2330102"   "2450425"   "2456572"   "2798748"   "2893717"   "2902303"   "2982323"   "2985054"   "3021129"   "3319508"   "3391910"   "3397726"   "3417650"   "3535977"   "3608601"   "3884589"   "4019824"   "4405251").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/07 17:04
S31	11	("4752178").URPN.	USPAT	OR	OFF	2005/02/07 17:07
S32	4328	(wave or belleville or flat) with (spring or washer) and ((valve or cover) and engine)	US-PGPUB; USPAT	OR	OFF	2005/02/08 09:11
S33	1180	(wave or belleville or flat) with (spring or washer) and ((valve or cover) and engine) and ("411"/\$.ccls. or "123"/\$.ccls. or "403"/\$.ccls. or "261"/\$.ccls. or "277"/\$.ccls.)	US-PGPUB; USPAT	OR	OFF	2005/02/08 09:23
S34	476	(wave or belleville or flat) adj2 (spring or washer) and ((valve or cover) and engine) and ("411"/\$.ccls. or "123"/\$.ccls. or "403"/\$.ccls. or "261"/\$.ccls. or "277"/\$.ccls.)	US-PGPUB; USPAT	OR	OFF	2005/02/08 09:24

## EAST Search History

S36	14	((("5460329") or ("5682858") or ("6009856") or ("4,066,213") or ("2,777,431") or ("6,684,860") or ("1,793,234") or ("6,499,468") or ("6,026,786") or ("6,196,195") or ("5,960,774") or ("5,697,345") or ("5,785,024") or ("4,133,321"))).PN.	US-PGPUB; USPAT	OR	OFF	2005/02/09 08:26
S37	10	("4528959"   "5121731"   "5125383"   "5247918"   "5253810"   "5630400"   "5694898"   "5697345"   "5706786"   "5706787").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/09 08:32
S38	8	((("4027644") or ("4548170") or ("4571133") or ("4752178") or ("5020949") or ("5397206") or ("5655489") or ("6280132"))).PN.	US-PGPUB; USPAT	OR	OFF	2005/02/09 09:35
S39	1	("4118041").PN.	US-PGPUB; USPAT	OR	OFF	2005/07/12 14:42
S40	1	("4571133").PN.	US-PGPUB; USPAT	OR	OFF	2005/07/12 14:42
S41	1	("5655489").PN.	US-PGPUB; USPAT	OR	OFF	2005/07/12 14:43
S42	1	("4456268").PN.	US-PGPUB; USPAT	OR	OFF	2005/07/12 14:43
S43	1	("4752178").PN.	US-PGPUB; USPAT	OR	OFF	2005/07/12 14:45
S44	1	("20040159310").PN.	US-PGPUB; USPAT	OR	OFF	2005/07/12 14:46
S45	1	("5397206").PN.	US-PGPUB; USPAT	OR	OFF	2005/07/12 14:46
S46	0	("S39S40s41s42s43s44s45").PN.	US-PGPUB; USPAT	OR	OFF	2005/07/12 16:09
S47	1	("4118041").PN.	US-PGPUB; USPAT	OR	OFF	2005/07/12 16:09
S48	1	("4571133").PN.	US-PGPUB; USPAT	OR	OFF	2005/07/12 16:09
S49	1	("5655489").PN.	US-PGPUB; USPAT	OR	OFF	2005/07/12 16:09
S50	1	("4456268").PN.	US-PGPUB; USPAT	OR	OFF	2005/07/12 16:09
S51	1	("4752178").PN.	US-PGPUB; USPAT	OR	OFF	2005/07/12 16:09
S52	1	("20040159310").PN.	US-PGPUB; USPAT	OR	OFF	2005/07/12 16:09
S53	1	("5397206").PN.	US-PGPUB; USPAT	OR	OFF	2005/07/12 16:09

## EAST Search History

S54	7	S47 S48 S49 S50 S51 S52 S53	US-PGPUB; USPAT	OR	OFF	2005/07/12 16:09
S55	1270	(wave belleville) adj3 (spring washer) and (engine valve) and (vibration damp\$ acousti\$)	US-PGPUB; USPAT	OR	OFF	2005/07/12 17:18
S56	4	S55 and "411"/\$.ccls.	US-PGPUB; USPAT	OR	OFF	2005/07/12 17:17
S57	28	("2830486"   "2983121"   "3113755"   "3873079"   "3968970"   "4106170"   "4394872"   "4571133"   "4651981"   "5024453"   "5090087"   "5180268"   "5190264"   "5192049").PN. OR ("5316319").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/07/12 16:34
S58	17	("0299987"   "0813714"   "1162566"   "2783810"   "3077218"   "3329190"   "3389734"   "3605845"   "3825051").PN. OR ("4091853").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/07/12 16:40
S59	103	S55 and "123"/\$.ccls.	US-PGPUB; USPAT	OR	OFF	2005/07/12 17:17
S60	56	((wave) adj3 (spring washer) wave\$1spring) and (engine valve) and (vibration damp\$ acousti\$) and "123"/\$.ccls.	US-PGPUB; USPAT	OR	OFF	2005/07/12 17:53
S61	1	("4684103").PN.	US-PGPUB; USPAT	OR	OFF	2005/07/12 17:53
S62	13	("4549719").PN. OR ("4684103").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/07/12 17:56
S63	19	crankshaft adj nut	US-PGPUB; USPAT	OR	OFF	2005/07/12 18:52
S64	8	((("4027644") or ("4548170") or ("4571133") or ("4752178") or ("5020949") or ("5397206") or ("5655489") or ("6280132"))).PN.	US-PGPUB; USPAT	OR	OFF	2005/07/12 20:37
S65	1	("5755192").PN.	US-PGPUB; USPAT	OR	OFF	2005/07/12 21:17
S66	1	S65 and wave	US-PGPUB; USPAT	OR	OFF	2005/07/12 21:17
S67	19	"4684103"	US-PGPUB; USPAT	OR	OFF	2005/10/03 13:30
S68	3	"5624099"	US-PGPUB; USPAT	OR	OFF	2006/01/31 21:18
S69	2	((("5624099") or ("6074122"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/01/31 21:14

## EAST Search History

S70	1	"6074122"	US-PGPUB; USPAT	OR	OFF	2006/01/31 21:18
S71	24	("2305295"   "2842233"   "3367274"   "3720429"   "4428275"   "4708692"   "4737136"   "4828441"   "4984777"   "5123771"   "5220889"   "5231957"   "5234039"   "5360087"   "5370472"   "5501075"   "5514038"   "5538356").PN. OR ("5624099"   "6074122").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/31 21:18
S72	1	"11050842"	JPO	OR	OFF	2006/01/31 22:33
S73	1	"05180005"	JPO	OR	OFF	2006/01/31 22:33
S74	1	("20060018731").PN.	US-PGPUB; USPAT	OR	OFF	2006/06/12 17:21

## EAST Search History

S75	89	(US-20040134456-\$ or US-20030154957-\$ or US-20040159310-\$ or US-20040113370-\$ or US-20030042689-\$ or US-20040118388-\$ or US-20040118383-\$).did. or (US-6227784-\$ or US-4571133-\$ or US-4027644-\$ or US-4732519-\$ or US-3805827-\$ or US-4215664-\$ or US-3884457-\$ or US-5195756-\$ or US-5489180-\$ or US-5984602-\$ or US-0491173-\$ or US-0361298-\$ or US-4345552-\$ or US-4266566-\$ or US-6591801-\$ or US-5785024-\$ or US-2255217-\$ or US-6250618-\$ or US-6050557-\$ or US-5639074-\$ or US-4651981-\$ or US-5503406-\$ or US-4752178-\$ or US-3391910-\$ or US-3319508-\$ or US-3021129-\$). did. or (US-4072081-\$ or US-6318939-\$ or US-5316319-\$ or US-5884594-\$ or US-5094579-\$ or US-6582172-\$ or US-5411054-\$ or US-3687184-\$ or US-5618145-\$ or US-6827056-\$ or US-2930605-\$ or US-3877339-\$ or US-4986246-\$ or US-6332509-\$ or US-5655489-\$ or US-2951674-\$ or US-6145182-\$ or US-4951783-\$ or US-4667628-\$ or US-3967829-\$ or US-6371073-\$ or US-5513603-\$ or US-4303362-\$ or US-6361257-\$ or US-5827025-\$ or US-5709514-\$ or US-6388351-\$). did. or (US-5961097-\$ or US-5934232-\$ or US-5630571-\$ or US-5560267-\$ or US-5588414-\$ or US-6745995-\$ or US-2982323-\$ or US-2893717-\$ or US-2798748-\$ or US-2456572-\$ or US-6758465-\$ or US-3953555-\$ or US-5168840-\$ or US-5022361-\$ or US-5020951-\$ or US-5397206-\$ or US-5876024-\$ or US-5937976-\$ or US-6347694-\$ or US-4456268-\$ or US-4091853-\$ or US-3968970-\$ or US-3873079-\$ or US-3113755-\$ or US-5180268-\$ or US-4684103-\$ or US-5501075-\$). did. or (US-3113755-\$ or US-2983121-\$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/12 22:18
S76	3	((("6591801") or ("5624099") or ("4732519"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/06/12 17:21

## EAST Search History

S77	89	(US-20040134456-\$ or US-20030154957-\$ or US-20040159310-\$ or US-20040113370-\$ or US-20030042689-\$ or US-20040118388-\$ or US-20040118383-\$).did. or (US-6227784-\$ or US-4571133-\$ or US-4027644-\$ or US-4732519-\$ or US-3805827-\$ or US-4215664-\$ or US-3884457-\$ or US-5195756-\$ or US-5489180-\$ or US-5984602-\$ or US-0491173-\$ or US-0361298-\$ or US-4345552-\$ or US-4266566-\$ or US-6591801-\$ or US-5785024-\$ or US-2255217-\$ or US-6250618-\$ or US-6050557-\$ or US-5639074-\$ or US-4651981-\$ or US-5503406-\$ or US-4752178-\$ or US-3391910-\$ or US-3319508-\$ or US-3021129-\$). did. or (US-4072081-\$ or US-6318939-\$ or US-5316319-\$ or US-5884594-\$ or US-5094579-\$ or US-6582172-\$ or US-5411054-\$ or US-3687184-\$ or US-5618145-\$ or US-6827056-\$ or US-2930605-\$ or US-3877339-\$ or US-4986246-\$ or US-6332509-\$ or US-5655489-\$ or US-2951674-\$ or US-6145182-\$ or US-4951783-\$ or US-4667628-\$ or US-3967829-\$ or US-6371073-\$ or US-5513603-\$ or US-4303362-\$ or US-6361257-\$ or US-5827025-\$ or US-5709514-\$ or US-6388351-\$). did. or (US-5961097-\$ or US-5934232-\$ or US-5630571-\$ or US-5560267-\$ or US-5588414-\$ or US-6745995-\$ or US-2982323-\$ or US-2893717-\$ or US-2798748-\$ or US-2456572-\$ or US-6758465-\$ or US-3953555-\$ or US-5168840-\$ or US-5022361-\$ or US-5020951-\$ or US-5397206-\$ or US-5876024-\$ or US-5937976-\$ or US-6347694-\$ or US-4456268-\$ or US-4091853-\$ or US-3968970-\$ or US-3873079-\$ or US-3113755-\$ or US-5180268-\$ or US-4684103-\$ or US-5501075-\$). did. or (US-3113755-\$ or US-2983121-\$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/12 22:18
S78	0	S77 and "guarantee better service life"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/12 22:18



## EAST Search History

S79	3	S77 and "service life"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/12 22:20
S80	0	S77 and "solid-bourne"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/12 22:20
S81	1	S77 and "solid-borne"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/12 22:24
S82	3	"5624099"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/12 22:24



## EAST Search History

S83	89	(US-20040134456-\$ or US-20030154957-\$ or US-20040159310-\$ or US-20040113370-\$ or US-20030042689-\$ or US-20040118388-\$ or US-20040118383-\$).did. or (US-6227784-\$ or US-4571133-\$ or US-4027644-\$ or US-4732519-\$ or US-3805827-\$ or US-4215664-\$ or US-3884457-\$ or US-5195756-\$ or US-5489180-\$ or US-5984602-\$ or US-0491173-\$ or US-0361298-\$ or US-4345552-\$ or US-4266566-\$ or US-6591801-\$ or US-5785024-\$ or US-2255217-\$ or US-6250618-\$ or US-6050557-\$ or US-5639074-\$ or US-4651981-\$ or US-5503406-\$ or US-4752178-\$ or US-3391910-\$ or US-3319508-\$ or US-3021129-\$). did. or (US-4072081-\$ or US-6318939-\$ or US-5316319-\$ or US-5884594-\$ or US-5094579-\$ or US-6582172-\$ or US-5411054-\$ or US-3687184-\$ or US-5618145-\$ or US-6827056-\$ or US-2930605-\$ or US-3877339-\$ or US-4986246-\$ or US-6332509-\$ or US-5655489-\$ or US-2951674-\$ or US-6145182-\$ or US-4951783-\$ or US-4667628-\$ or US-3967829-\$ or US-6371073-\$ or US-5513603-\$ or US-4303362-\$ or US-6361257-\$ or US-5827025-\$ or US-5709514-\$ or US-6388351-\$). did. or (US-5961097-\$ or US-5934232-\$ or US-5630571-\$ or US-5560267-\$ or US-5588414-\$ or US-6745995-\$ or US-2982323-\$ or US-2893717-\$ or US-2798748-\$ or US-2456572-\$ or US-6758465-\$ or US-3953555-\$ or US-5168840-\$ or US-5022361-\$ or US-5020951-\$ or US-5397206-\$ or US-5876024-\$ or US-5937976-\$ or US-6347694-\$ or US-4456268-\$ or US-4091853-\$ or US-3968970-\$ or US-3873079-\$ or US-3113755-\$ or US-5180268-\$ or US-4684103-\$ or US-5501075-\$). did. or (US-3113755-\$ or US-2983121-\$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/13 11:49
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## EAST Search History

S84	39	("0128602"   "1096846"   "2339549"   "2459658"   "2915152"   "3362276"   "3695386"   "4027644"   "4206931"   "4306708"   "4345552"   "4471731"   "4495903"   "4906154"   "4975008"   "5193960"   "5255647"   "5323740"   "5393183"   "5397206"   "5433568"   "5489177"   "5513603"   "5584628"   "5662444"   "5688091"   "5871319"   "6030161"   "6059503").PN. OR ("6227784").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/13 11:54
S85	70	("1409606"   "1572770"   "1788408"   "2374743"   "2409519"   "2709470"   "2761484"   "2931412"   "3008368"   "3083796"   "3090203"   "3137195"   "3217774"   "3221847"   "3250559"   "3262480"   "3447229"   "3452636"   "3474847"   "4306708"   "4309123"   "4334599"   "4435112"   "4607992"   "4732519"   "4844677"   "4971497"   "4979858"   "4999019"   "5094579"   "5141357"   "5154559"   "5165834"   "5199152"   "5209620"   "5255647"   "5328311"   "5395194"   "5509752"   "5662444"   "5664922"   "5711711").PN. OR ("6059503").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/13 11:55

## EAST Search History

S86	88	("1674258"   "2132636"   "2255948"   "2275315"   "2283494"   "2303224"   "2487129"   "2672069"   "2779376"   "2792578"   "2817380"   "3016941"   "3062253"   "3138188"   "3196733"   "3204680"   "3209806"   "3221794"   "3315720"   "3358548"   "3465803"   "3502130"   "3525108"   "3556570"   "3622194"   "3699841"   "3777796"   "3837212"   "3862458"   "3869219"   "3877341"   "4115912"   "4174008"   "4193434"   "4238165"   "4306708"   "4334599"   "4348140"   "4430033"   "4435112"   "4621961"   "4655656"   "4701088"   "4702657"   "4705285"   "4732519"   "4975008"   "4995777"   "5040917"   "5094579"   "5139361"   "5154559"   "5244325"   "5255647"   "5308285"   "5328311").PN. OR ("5711711"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/13 12:05
S87	7	("2817380").URPN.	USPAT	OR	OFF	2006/06/13 12:11
S88	14	("3447229").URPN.	USPAT	OR	OFF	2006/06/13 12:18
S89	28	("0036014"   "0964216"   "0969383"   "1146481"   "1203505"   "1220908"   "1708793"   "1926925"   "3245142"   "3468211"   "4437286"   "4589179"   "4616455").PN. OR ("4906154"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/13 12:25
S90	31	("2724378"   "3396712"   "3656466"   "3773142"   "3822763"   "3869859"   "3924597").PN. OR ("4027644").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/13 12:56
S91	17	("2915152").URPN.	USPAT	OR	OFF	2006/06/13 13:03
S92	22	("2390201"   "2480529"   "3245653"   "4151855").PN. OR ("4266566").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/13 13:13
S93	16	(wave or undulating) and valve and "411"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/13 13:16
S94	312	(wave or undulating) same (valve with cover)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/13 13:18
S95	21	(wave or undulating) same ("valve cover")	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/13 13:19

## EAST Search History

S96	32	(wave or wavy or undulating or belleville) same ("valve cover")	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/13 13:19
S97	41	(US-20060018731-\$).did. or (US-6623226-\$ or US-6585468-\$ or US-6478519-\$ or US-6457925-\$ or US-6309156-\$ or US-6227784-\$ or US-6030161-\$ or US-5871319-\$ or US-5662444-\$ or US-5328311-\$ or US-5244325-\$ or US-5255647-\$ or US-4732519-\$ or US-5397206-\$ or US-4027644-\$ or US-5513603-\$ or US-4667628-\$ or US-4215664-\$ or US-4951783-\$ or US-4303362-\$ or US-5618145-\$ or US-5489177-\$ or US-6676345-\$ or US-4975008-\$ or US-4306708-\$ or US-6883859-\$). did. or (US-5711711-\$ or US-3474847-\$ or US-4702657-\$ or US-2817380-\$ or US-1674258-\$ or US-7051695-\$ or US-4435112-\$ or US-3447229-\$ or US-4193434-\$ or US-2480529-\$ or US-2390201-\$). did. or (US-2915152-\$ or US-2817380-\$ or US-2480529-\$). did.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/13 16:01

## EAST Search History

S98	89	(US-20040134456-\$ or US-20030154957-\$ or US-20040159310-\$ or US-20040113370-\$ or US-20030042689-\$ or US-20040118388-\$ or US-20040118383-\$).did. or (US-6227784-\$ or US-4571133-\$ or US-4027644-\$ or US-4732519-\$ or US-3805827-\$ or US-4215664-\$ or US-3884457-\$ or US-5195756-\$ or US-5489180-\$ or US-5984602-\$ or US-0491173-\$ or US-0361298-\$ or US-4345552-\$ or US-4266566-\$ or US-6591801-\$ or US-5785024-\$ or US-2255217-\$ or US-6250618-\$ or US-6050557-\$ or US-5639074-\$ or US-4651981-\$ or US-5503406-\$ or US-4752178-\$ or US-3391910-\$ or US-3319508-\$ or US-3021129-\$). did. or (US-4072081-\$ or US-6318939-\$ or US-5316319-\$ or US-5884594-\$ or US-5094579-\$ or US-6582172-\$ or US-5411054-\$ or US-3687184-\$ or US-5618145-\$ or US-6827056-\$ or US-2930605-\$ or US-3877339-\$ or US-4986246-\$ or US-6332509-\$ or US-5655489-\$ or US-2951674-\$ or US-6145182-\$ or US-4951783-\$ or US-4667628-\$ or US-3967829-\$ or US-6371073-\$ or US-5513603-\$ or US-4303362-\$ or US-6361257-\$ or US-5827025-\$ or US-5709514-\$ or US-6388351-\$). did. or (US-5961097-\$ or US-5934232-\$ or US-5630571-\$ or US-5560267-\$ or US-5588414-\$ or US-6745995-\$ or US-2982323-\$ or US-2893717-\$ or US-2798748-\$ or US-2456572-\$ or US-6758465-\$ or US-3953555-\$ or US-5168840-\$ or US-5022361-\$ or US-5020951-\$ or US-5397206-\$ or US-5876024-\$ or US-5937976-\$ or US-6347694-\$ or US-4456268-\$ or US-4091853-\$ or US-3968970-\$ or US-3873079-\$ or US-3113755-\$ or US-5180268-\$ or US-4684103-\$ or US-5501075-\$). did. or (US-3113755-\$ or US-2983121-\$).did.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/13 16:01
S99	28	S97 Not S98	US-PGPUB; USPAT	OR	OFF	2006/06/13 16:01
S10 0	6094	wave with spring	US-PGPUB; USPAT	OR	OFF	2006/12/13 20:21

## EAST Search History

S10 1	2423	S100 and (engine valve)	US-PGPUB; USPAT	OR	OFF	2006/12/13 20:32
S10 2	673	S101 and (vibrat\$)	US-PGPUB; USPAT	OR	OFF	2006/12/13 20:21
S10 3	5	S101 and "411"/\$.ccls.	US-PGPUB; USPAT	OR	OFF	2006/12/13 20:22
S10 4	37	("0183324"   "0292063"   "0360091"   "1394740"   "2943528"   "3280689"   "3285120"   "3474701"   "3631910"   "3884457"   "4072081").PN. OR ("4571133"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/13 20:23
S10 5	4990	wave adj3 (spring washer)	US-PGPUB; USPAT	OR	OFF	2006/12/13 20:32
S10 6	7396	wave with (spring washer)	US-PGPUB; USPAT	OR	OFF	2006/12/13 20:32
S10 7	20	S106 and (valve adj cover)	US-PGPUB; USPAT	OR	OFF	2006/12/13 21:00
S10 8	1458	S106 and engine	US-PGPUB; USPAT	OR	OFF	2006/12/18 11:11
S10 9	1	("5,444,603").PN.	US-PGPUB; USPAT	OR	OFF	2006/12/18 11:11
S11 0	9	("20030056615"   "3691868"   "5086663"   "5632183"   "5996438"   "6151985"   "6178847"   "6289761"   "6352007").PN. OR ("6880427").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/18 11:33
S11 1	21	("2251366"   "4189043"   "4291792"   "4678071"   "4696384"   "4744448"   "4770282"   "5205388"   "5320205"   "5385224"   "5456345"   "5531308"   "5564541"   "5564542"   "5566804"   "5595274"   "5595275"   "6050381"   "6264019"   "6296099").PN. OR ("6820731"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/18 12:08
S11 2	12	("3461769"   "4027644"   "4066058"   "4215664"   "4456268"   "5184698"   "5209018"   "5628601"   "5655489"   "5702218"   "6338591").PN. OR ("7051695"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/18 13:32
S11 7	0	(2002/0088299).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/12/18 14:43
S11 8	0	(2002/0088299).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/12/18 14:43

**EAST Search History**

S11 9	1	("20020088299").PN.	US-PGPUB; USPAT	OR	OFF	2006/12/18 14:43
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